

# 2009 DOE SOLID-STATE LIGHTING MANUFACTURING WORKSHOP II

June 24–25, 2009  
Vancouver, WA

## *Workshop Agenda*

**Wednesday, June 24**

PLENARY SESSION		
7:30 a.m.	<i>Registration and Continental Breakfast</i>	
8:00	<b>Welcome/Fairfax Recap</b> <i>James Brodrick, U.S. Department of Energy</i>	
8:30	<b>Systems Approach to Manufacturing</b> <i>Mark McClear, Cree, Inc.</i>	
9:15	<b>Competition and Cooperation: The SEMATECH Experience</b> <i>Scott Kramer, SEMATECH</i>	
10:00	<b>SSL Manufacturing Roadmap</b> <i>Fred Welsh, Radcliffe Advisors</i>	
10:30	<i>Break</i>	
	OLED TRACK	LED TRACK
11:00–12:15 p.m.	<b>Introduction to OLED Track</b> <i>Norman Bardsley, Bardsley Consulting</i>  <b>Panel: Vacuum Processing</b> <i>Mike Hack, Universal Display Corp.</i> <i>Uwe Hoffmann, Applied Materials</i> <i>Michael Long, Eastman Kodak</i> <i>Gopalan Rajeswaran, Moser Baer</i>  <b>Discussion</b>	<b>Introduction to LED Track</b> <i>Steve Bland, SB Consulting</i>  <b>Integrated Light Engines</b> <i>Chuck Berghoff, Optoelectronix</i>  <b>Power Supply and Driver Issues</b> <i>Julio Vera, Philips Solid State Lighting North America</i>
12:15	<b>Working Lunch</b> <i>Lunch Table Discussions: Roadmap Review</i>	
1:30–2:45	<b>Solution Processing for Lighting</b> <i>Vincent Cannella, ECD/United Solar Ovonic</i>  <b>Panel: Solution Processing</b> <i>William Feehery, DuPont OLEDs</i> <i>Miguel Friedrich, NextechFAS</i> <i>Devin MacKenzie, Add-Vision</i> <i>Martin Yan, GE Global Research</i>  <b>Discussion</b>	<b>Manufacturing Equipment Optimization</b> <i>Andy Hawryluk, Ultratech</i>  <b>Inspection and Testing</b> <i>Rich Solarz, KLA Tencor</i>  <b>Charge to LED Breakout Sessions</b> <i>Steve Bland, SB Consulting</i>
2:45	<i>Break</i>	

3:15–5:00	<b>Charge to OLED Breakout Session</b> <i>Norman Bardsley, Bardsley Consulting</i>  <b>OLED Breakout Session 1</b>	<b>LED Breakout Session 1</b>
5:00–7:00	<i>Evening Reception</i>	

## Thursday, June 25

PLENARY SESSION		
7:30 a.m.	Continental Breakfast	
8:00	Introduction to Day 2	
8:15	<b>Panel: U.S. Manufacturing in a Global Lighting Industry</b> <i>James Brodrick, U.S. Department of Energy (Moderator); Keith Cook, Philips Lighting; Robert Harrison, Osram Sylvania; Heng Liu, Bridgelux; Govi Rao, Lighting Science Group; Kevin Willmorth, Lumenique</i>	
	<b>Discussion</b>	
9:45	Break	
	OLED TRACK	LED TRACK
10:15–11:45	<b>Substrates and Encapsulation</b> <i>Tom Clausen, 3M</i>  <b>Panel: Substrates &amp; Encapsulation</b> <i>Michael Boroson, Eastman Kodak Dennis O’Shaughnessy, PPG Industries Martin Rosenblum, Vitex Systems Robert Rustin, DuPont Teijin Films</i>  <b>Discussion</b>	<b>Sapphire Substrates Roadmap</b> <i>Sunil Phatak, Rubicon Technology</i>  <b>Freestanding GaN Subtrates</b> <i>Scott Zimmerman, Goldeneye</i>  <b>LED Breakout Session 2</b>
11:45	<b>Working Lunch</b> <i>Discussion of Roadmap Recommendations</i>	
1:00–2:45 p.m.	<b>OLED Breakout Session 2</b>	<b>LED Breakout Session 2 (cont.)</b>
2:45	Break	
PLENARY SESSION		
3:00	<b>Panel: Standards for SSL</b> <i>Eric Richman, PNNL (Moderator); Kevin Dowling, Philips Color Kinetics; Pat Gardner, SEMI; Mike Hack, Universal Display Corp.</i>  <b>Discussion</b>	
4:00	<b>Recommendation Summaries from Each Group &amp; Discussion</b> <i>OLED &amp; LED Spokespersons</i>	
5:00	<b>Wrap-Up &amp; Adjourn</b> <i>James Brodrick, U.S. Department of Energy</i>	